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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/004,191	10/31/2001	Roland M. Hochmuth	10017760-1	10017760-1 5760	
75	590 01/24/2006	EXAM	EXAMINER		
	ACKARD COMPANY perty Adiminstration	TUNG,	TUNG, KEE M		
P.O. Box 272400 Fort Collins, CO 80527-2400			ART UNIT	PAPER NUMBER	
			2671		
			DATE MAILED: 01/24/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Examiner Art Unit Learniner Art Unit Learniner Learnine			Application No.	Applicant(s)		
Res M. Tung 2671	Office Action Summary		10/004,191	HOCHMUTH ET AL.		
The MALLING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Substancian of time may be available under the provisions of 37 FR1 1:38(a). In an event, however, may a reply be timely fired to the provision of 10 FR1 1:38(a). In event, however, may a reply be timely fired to the provision of 10 FR1 1:38(a). In event, however, may a reply be timely fired to the provision of 10 FR1 1:38(a). In event, however, may a reply be timely fired to the provision of 10 FR1 1:38(a). In event, however, may a reply be timely fired to the provision of 10 FR1 1:38(a). In event, however, may a reply be timely fired or the provision of 10 FR1 1:38(a). In event, however, may be reply the provision of 10 FR1 1:38(a). Any reply received by the different manufacture. See 37 CPR 1:74(b). Status 1) ★ Responsive to communication (s) filled on 21 November 2005. 2a) ★ This action is FINAL. 2b) ★ This action is non-final. 3) ★ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ★ Claim(s) 37-54 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 6b) ★ Claim(s) 37-54 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 6c) ★ Claim(s)			Examiner	Art Unit		
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under five provisions of 37 CFR 1.38(s). In no event, however, may a nely be timely filed. If NO period for reply is specified above, the maximus studary prior dut apply and will easily SIK (9) MONTHS from the mailing date of this communication. Failure to reply within the Set or extended period for reply will, by stability, cause the application to become ABANDONED (33 U.S.C. § 113). Any veryly received the first or extended period for reply will by stability, cause the application to become ABANDONED (33 U.S.C. § 113). Any veryly received the first order and the semiling date of this communication, even if timely filled, may reduce any secured particular than adjustment. See 97 CFR 1.704(5). Status 1) Responsive to communication(s) filled on 21 November 2005. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 37-54 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 37-54 is/are rejected. 7) Claim(s) is/are allowed. 8) Claim(s) 37-54 is/are rejected to 8. Claim(s) 37-54 is/are rejected to 8. 8) Claim(s) 37-54 is/are rejected to 8. 8) Claim(s) 37-54 is/are rejected to 8. 8) Claim(s) 37-54 is/are allowed. 8) Claim(s) 37-54 is/are allowed. 9) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Application Papers 9) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Application papers is a subject to restriction and/or election requirement. Application from the drawing shee(ls) including the correction is required if the drawing(s) is			Kee M. Tung	2671		
WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Eletrolistors of ther may be enabled under the provisions of 37 CFR 1.13(e). In no event, however, may a reply be timely filed after SIX (8) MCNTR5 from the mailing date of this communication. Failine to reply which the set or canded derified from exply with py shart to be some MAINONTR5 from the mailing date of this communication. Failine to reply which the set or canded derified from exply with py shart cause the application is become MAINONED (as U.S. 2.13). Any reply received by the Oiline later than three monites after the mailing date of this communication, even if simely filed, may reduce any seared patient term adjustment. Set 37 CFR 1.70(b). Status 1 ∑ Responsive to communication(s) filed on 21 November 2005. 2a ☐ This action is FINAL. 2b ∑ This action is non-final. 3 ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4 ∑ Claim(s) 37.54 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5 ☐ Claim(s) 37.54 is/are rejected. 7 ☐ Claim(s) is/are allowed. 6 ∑ Claim(s) 37.54 is/are rejected to. 8 ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers 9 ☐ The specification is objected to by the Examiner. 10 ☐ The drawing(s) filed on is/are: a ☐ accepted or b)☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in aboyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12 ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)☐			ears on the cover sheet with the c	orrespondence address		
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3) 🔲 information disclosure Statement(s) (PTO-1449 of PTO/SB/08)	1) Notice o	f References Cited (PTO-892)	Paper No(s)/Mail Da	te		

1. In view of the new arguments presented in the Appeal Brief filed on 11/21/05, PROSECUTION IS HEREBY REOPENED. New grounds of rejection are set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
- (2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been increased since they were previously paid, then appellant must pay the difference between the increased fees and the amount previously paid.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 37-39, 43-45 and 50-52 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schmidt et al (The interactive performance of SLIM: a stateless, thin-

Art Unit: 2671

client architecture, hereinafter "Schmidt") in view of Sun Ray Appliances: The Network is the Computer (hereinafter after "Sun").

Schmidt teaches a system for displaying image (page 33, Fig. 1), comprising a display device (such as, the display within the consoles which is based on Sun Ray I Appliance architecture or SLIM) communicatively couplable to a network (interconnection fabric) and adapted to display the image, the SLIM comprising: a display network interface (page 34, section 2.1, Based-T Ethernet connection and page 35, section 2.3, 2nd paragraph, network interface) operable to receive graphics image data of the image from the network (page 35, section 2.3, 1st paragraph); a display frame buffer (page 35, section 2.2, 1st paragraph, local frame buffer) operable to store the received graphics image data; and a display refresh unit (page 35, section 2.2, 1st paragraph, refreshing the display from local frame buffer) operable to read the graphics image data from the display frame buffer and display the image. However, Schmidt fails to explicitly teach the SLIM is integrated into the display device. Sun teaches the latest Sun Ray 100 and 150 Applicances integrated the SLIM into the display device. It would have been obvious to one of ordinary skill in the art at the time the present invention was made to combine the teachings of integration SLIM and the display device of latest product line of Sun Ray 100 and 150 into the early product of Sun Ray I in order to reduce the desktop system footprint while simplifying cabling and setup. Therefore, at least claim 37 would have been obvious by Schmidt and Sun.

As per claim 38, Schmidt teaches a display network interface port (inherently by the teachings of interconnection fabric of Fig. 1 in order to receive data over the network).

As per claim 39, Schmidt teaches the display network interface port is selected from the group consisting of an Ethernet port, an infiniband port, and a wireless network transceiver (page 34, section 2.1, Based-T Ethernet connection).

As per claim 43, Schmidt teaches the display device is adapted to display the image via at least one of an element selected from the group consisting of a CRT, LCD, TFT, LED and an organic polymer (is inherent to replace the display device of Fig. 1 to any one of the display device on the listed without required any skill).

As per claim 44, Schmidt teaches the display network interface of the display device adapted to receive the graphics image data from a remote source device via a plurality of packets (Page 35, section 2.2, UDP/IP transmission between servers and consoles).

Method claims 45, 50 and 51 are similar in scope to system claims 37, 43 and 44, and thus are rejected under similar rationale.

System claim 52 is similar in scope to system claim 37, and thus is rejected under similar rationale.

4. Claims 40-42, 46, 47, 49, 53 and 54 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schmidt et al (The interactive performance of SLIM: a stateless, thin-client architecture, hereinafter "Schmidt") in view of Sun Ray Appliances:

The Network is the Computer (hereinafter after "Sun") as applied to claims 37, 45 and 52 above, and further in view of Belt (5,974,471).

The teachings of Schmidt and Sun are given in previous paragraph of this office action. However, the combination of Schmidt and Sun fails to explicitly teach or suggest the display device further comprises a display decompression unit. This is what Belt teaches. Belt teaches a computer system having distributed compression and decompression logic (codec 172) for compressed data movement (title and Fig. 1). The codec (172) in the device preferably compresses the data before transferring the data onto the bus. The receiving or destination device includes codec logic which receives the compressed data and decompresses the data before used or stored by the device (abstract). It would have been obvious to one of ordinary skill in the art at the time the present invention was made to combine the teachings of codec of Belt into the system of Schmidt and Sun in order to provide increased efficiency and reduced bus bandwidth requirements as taught by Belt (abstract). Therefore, at least claims 40-42, 46, 47, 49, 53 and 54 would have been obvious.

5. Claim 48 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schmidt et al (The interactive performance of SLIM: a stateless, thin-client architecture, hereinafter "Schmidt"), Sun Ray Appliances: The Network is the Computer (hereinafter after "Sun") and Belt (5,974,471) as applied to claims 45 and 46 above, and further in view of Torborg, Jr. et al (5,936,616 hereinafter "Torborg").

Application/Control Number: 10/004,191

Art Unit: 2671

The teachings of combined system of Schmidt, Sun and Belt are given in previous paragraph of this Office action. However, the combined system fails to explicitly teach or suggest the compressed and decompressed graphics image data stored in different portions of the display frame buffer. This is what Torborg teaches. Torborg teaches a display controller that maintains a shared memory 142 comprising both a decompressed cache (VFB cache) used to store a decompressed portion of the frame buffer, and compressed memory used to store compressed subregions of the frame buffer (Fig. 6, col. 9, lines 39-43). The invention provides the advantages of reducing memory requirements in computer display architectures because the display image is stored in compressed form, and reducing the memory bandwidth requirement access the display image since it requires less bandwidth to transfer compressed data as opposed to decompressed data as taught by Torborg (col. 3, lines 14-22). It would have been obvious to one of ordinary skill in the art at the time the present invention was made to have implement the console frame buffer as comprising both compressed portion and decompressed portion as taught by Torborg in order to conserve storage

Response to Arguments

and reduce memory bandwidth. Therefore, at least claim 48 would have been obvious.

6. Applicant's arguments with respect to claims 37-54 have been considered but are moot in view of the new ground(s) of rejection.

Page 6

Application/Control Number: 10/004,191

Art Unit: 2671

Conclusion

Page 7

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kee M. Tung whose telephone number is 571-272-7794. The examiner can normally be reached on Tuesday - Friday from 5:30 am - 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ulka Chauhan can be reached on 571-272-7782. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kee M Tung Primary Examiner

Art Unit 2671

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing below:

ULKA CHAUHAN

SUPERVISORY PATENT EXAMINER